Performance Data Sheet

RKA5450YXG

General Information

Model	RKA5450YXG	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	400V 3~ 50HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	389			
	Watts (Power)	291			
	Amps	0.86			
-23.3	Watts (Capacity)	421	345		
	Watts (Power)	295	325		
	Amps	0.87	0.83		
-20	Watts (Capacity)	489	412		
	Watts (Power)	304	335		
	Amps	0.88	0.85		
-15	Watts (Capacity)	611	530	446	
	Watts (Power)	315	350	388	
	Amps	0.89	0.88	0.89	
-10	Watts (Capacity)	763	672	577	481
	Watts (Power)	324	364	405	452
	Amps	0.90	0.90	0.92	0.96
-6.7	Watts (Capacity)	880	781	677	569
	Watts (Power)	327	372	417	466
	Amps	0.90	0.91	0.94	0.98
-5	Watts (Capacity)	947	843	733	618
	Watts (Power)	328	376	422	473
	Amps	0.90	0.91	0.94	0.99
0	Watts (Capacity)	1170	1050	917	780
	Watts (Power)	327	383	437	494
	Amps	0.89	0.92	0.96	1.03

5	Watts (Capacity)	1430	1290	1130	971
	Watts (Power)	319	386	448	512
	Amps	0.88	0.92	0.98	1.05
7.2	Watts (Capacity)	1560	1410	1240	1070
	Watts (Power)	313	385	452	520
	Amps	0.88	0.92	0.98	1.06
10	Watts (Capacity)	1740	1570	1390	1200
	Watts (Power)	302	381	455	528
	Amps	0.87	0.92	0.99	1.07
15	Watts (Capacity)	2100	1900	1690	1460
	Watts (Power)	276	369	455	538
	Amps	0.85	0.91	0.99	1.09

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.457954E+03	9.329895E+01	9.254620E-01	
C2	5.798925E+01	-8.569221E+00	-8.599580E-03	
C3	-7.245987E+00	1.043458E+01	-3.755490E-03	
C4	1.106573E+00	-2.419737E-01	-1.114830E-04	
C5	-2.575479E-01	3.028643E-01	2.411800E-04	
C6	-9.270393E-02	-1.132055E-01	9.030630E-05	
C7	6.111760E-03	-1.811434E-03	0.000000E+00	
C8	-8.790617E-03	3.411860E-03	0.000000E+00	
C9	-2.055981E-03	-1.570978E-03	0.000000E+00	
C10	4.212179E-04	8.419530E-04	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RKA5450YXG

General Information

Model	RKA5450YXG	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-25	Watts (Capacity)	486			
	Watts (Power)	282			
	Amps	0.88			
-23.3	Watts (Capacity)	524	434		
	Watts (Power)	288	321		
	Amps	0.89	0.86		
-20	Watts (Capacity)	607	517		
	Watts (Power)	300	337		
	Amps	0.90	0.88		
-15	Watts (Capacity)	757	662	564	
	Watts (Power)	316	359	402	
	Amps	0.91	0.91	0.92	
-10	Watts (Capacity)	940	835	725	612
	Watts (Power)	328	378	428	482
	Amps	0.92	0.92	0.94	0.98
-6.7	Watts (Capacity)	1080	968	847	721
	Watts (Power)	334	389	444	503
	Amps	0.92	0.93	0.96	1.01
-5	Watts (Capacity)	1160	1040	915	782
	Watts (Power)	336	394	451	513
	Amps	0.92	0.94	0.97	1.02
0	Watts (Capacity)	1430	1290	1140	981
	Watts (Power)	339	405	471	541
	Amps	0.91	0.94	0.99	1.05

5	Watts (Capacity)	1750	1580	1400	1220
	Watts (Power)	336	411	486	566
	Amps	0.91	0.95	1.00	1.08
7.2	Watts (Capacity)	1910	1730	1540	1330
	Watts (Power)	333	412	491	575
	Amps	0.90	0.95	1.01	1.09
10	Watts (Capacity)	2120	1930	1720	1490
	Watts (Power)	327	411	496	586
	Amps	0.89	0.94	1.01	1.10
15	Watts (Capacity)	2560	2330	2080	1810
	Watts (Power)	310	405	500	601
	Amps	0.87	0.94	1.02	1.11

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.770264E+03	9.785127E+01	9.256500E-01	
C2	6.905790E+01	-4.909010E+00	-8.309120E-03	
C3	-8.884117E+00	1.005386E+01	-2.847580E-03	
C4	1.328497E+00	-1.570467E-01	-9.866040E-05	
C5	-2.751742E-01	1.591831E-01	2.339100E-04	
C6	-9.173227E-02	-8.930405E-02	8.199780E-05	
C7	7.604566E-03	-9.943608E-04	0.000000E+00	
C8	-1.038714E-02	1.364394E-03	0.000000E+00	
C9	-2.601637E-03	1.827579E-04	0.000000E+00	
C10	3.438098E-04	7.493817E-04	0.000000E+00	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature